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TRANSMITTAL FORM

(to be used for all correspondence after initial filing)

Total Number of Pages in This Submission

9

Application Number

09/283,431

Filing Date

April 1, 1999

First Named Inventor

Zhou, et al.

Group Art Unit

1635

Examiner Name

K. Lacourciere

Attorney Docket Number

47508.423

ENCLOSURES (check all that apply)

<input type="checkbox"/> Fee Transmittal Form	<input type="checkbox"/> Assignment Papers (for an Application)	<input type="checkbox"/> After Allowance Communication to Group
<input type="checkbox"/> Fee Attached	<input type="checkbox"/> Drawing(s)	<input type="checkbox"/> Appeal Communication to Board of Appeals and Interferences
<input checked="" type="checkbox"/> Amendment / Response	<input type="checkbox"/> Licensing-related Papers	<input type="checkbox"/> Appeal Communication to Group (Appeal Notice, Brief, Reply Brief)
<input type="checkbox"/> After Final	<input type="checkbox"/> Petition Routing Slip (PTO/SB/69) and Accompanying Petition	<input type="checkbox"/> Proprietary Information
<input type="checkbox"/> Affidavits/declaration(s)	<input type="checkbox"/> Petition to Convert to a Provisional Application	<input type="checkbox"/> Status Letter
<input type="checkbox"/> Extension of Time Request	<input type="checkbox"/> Power of Attorney, Revocation Change of Correspondence Address	<input type="checkbox"/> Additional Enclosure(s) (please identify below)
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<input type="checkbox"/> Response to Missing Parts/ Incomplete Application		
<input type="checkbox"/> Response to Missing Parts under 37 CFR 1.52 or 1.53		
Remarks		

SIGNATURE OF APPLICANT, ATTORNEY, OR AGENT

Firm or Individual name	Ann-Louise Kerner, Ph.D., Reg. No. 33,523
Signature	
Date	July 19, 2001

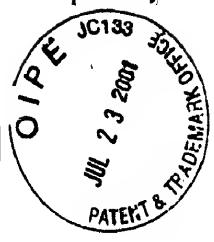
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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE
(Docket No. 47508.423)

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7-27-01

In re Application of: Zhou, et al.) Group Art Unit: 1635
Serial No.: 09/283,431) Examiner: K. Lacourciere
Filing Date: April 1, 1999)
Title: MIXED BACKBONE OLIGONUCLEOTIDES CONTAINING
POPS BLOCKS TO OBTAIN REDUCED PHOSPHOROTHIOATE
CONTENT

CERTIFICATE OF MAILING UNDER 37 C.F.R §1.8(a)

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Date: 7/19/01 By: Sharon R. Matthews
Sharon R. Matthews

Commissioner for Patents
Washington, DC 20231

AMENDMENT AND RESPONSE UNDER 37 C.F.R. §1.111

Dear Sir:

In response to the Office Action dated April 20, 2001, please amend the above-referenced patent application as follows:

In the claims:

- SJ
E
D*
-
4. (Amended) A hybrid oligonucleotide consisting of one or more deoxyribonucleotide POPS blocks and one or more regions of 2'-O-substituted ribonucleotides,